

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/721,414

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 _____ Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 _____ Wrapped Aminos The amino acid-number/text at the end of each line "wrapped " down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 _____ Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 _____ Misaligned Amino Acid The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
Numbering between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 _____ Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 _____ Variable Length Sequence(s) _____ contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.
- 7 _____ PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) _____. Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223>
sections for Artificial or Unknown sequences.
- 8 _____ Skipped Sequences Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence:
(OLD RULES) (2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 _____ Skipped Sequences Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence.
(NEW RULES) <210> sequence id number
 <400> sequence id number
 000
- 10 _____ Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 _____ Use of <213>Organism Sequence(s) _____ are missing this mandatory field or its response.
(NEW RULES)
 6,12
- 12 _____ Use of <220>Feature Sequence(s) _____ are missing the <220>Feature and associated headings.
(NEW RULES) Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 _____ PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

OIPE

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/721,414
 DATE: 12/07/2000
 TIME: 11:53:43

Input Set : A:\PTO.txt
 Output Set: N:\CRF3\12072000\I721414.raw

Does Not Comply
 Corrected Diskette Needed

see pp 2-3, too

*FYI: per
 1.823 of*

new sequence

*Reber, use
 42217 when*

*describing n or Xaa's
 in the sequence.*

3 <110> APPLICANT: Suga, Hiroaki
 W--> 4 <120> TITLE OF INVENTION: Catalytic RNAs with Aminoacylation Activity
 W--> 5 <130> FILE REFERENCE: 11520.0222
 OK 6 <140> CURRENT APPLICATION NUMBER: US/09/721,414
 W--> 6 <141> CURRENT FILING DATE: 2000-11-22
 W--> 6 <160> NUMBER OF SEQ ID: 22
 W--> 7 <210> SEQ ID NO: 1
 8 <211> LENGTH: 110
 9 <212> TYPE: DNA
 10 <213> ORGANISM: artificial sequence
 W--> 11 <220> FEATURE:
 12 <222> LOCATION: 21-99 **89**
 13 <223> OTHER INFORMATION: synthetic oligonucleotide containing random pool of 70
 14 nucleotides
 W--> 15 <400> SEQUENCE: 1
 OK 17 ggatcgctcag tgcattgaga nnnnnnnnnn nnnnnnnnnn 40
 W--> 18 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 80
 W--> 19 nnnnnnnnnn ggtgggtatcc ccaaggggta 110
 21 <210> SEQ ID NO: 2
 22 <211> LENGTH: 76
 23 <212> TYPE: DNA
 24 <213> ORGANISM: artificial sequence
 OK 25 <220> FEATURE:
 26 <223> OTHER INFORMATION: completely synthesized primer complementary to the otrNAGln
 W--> 27 <400> SEQUENCE: 2
 29 tggctgcggt acgaggattc gaacctcgga atgccggatt 40
 30 tagaaatccg gtcccttacc ccttggggat accacc 76
 33 <210> SEQ ID NO: 3
 34 <211> LENGTH: 52
 35 <212> TYPE: DNA
 36 <213> ORGANISM: artificial sequence
 OK 37 <220> FEATURE:
 38 <223> OTHER INFORMATION: 5' primer containing T7 promoter sequence
 W--> 39 <400> SEQUENCE: 3
 41 ggtaacacgc atatgtaata cgactcacta taggatcgtc 40
 42 agtgcattga ga 52
 44 <210> SEQ ID NO: 4
 45 <211> LENGTH: 20
 46 <212> TYPE: DNA
 47 <213> ORGANISM: artificial sequence
 OK 48 <220> FEATURE:
 49 <223> OTHER INFORMATION: 3' completely synthesized primer
 W--> 50 <400> SEQUENCE: 4
 52 tggctgcggt acgaggattc 20
 55 <210> SEQ ID NO: 5
 56 <211> LENGTH: 146
 57 <212> TYPE: RNA

RAW SEQUENCE LISTING
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Input Set : A:\PT0.txt
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OK 38 <213> ORGANISM: artificial sequence
59 <220> FEATURE:
W--> 60 <223> OTHER INFORMATION: pre-12 catalytic RNA
61 <400> SEQUENCE: 5
63 ggaucgucag ugaugaga uuuccgcagc ccuucucacu 40
64 aacggugggu cauggguaau ggcguuagg ggggaugcu 80
65 acgcugugg uaucccaag quuacggac cggacaucg 120
66 aqaucgaau ccuquaccg cagca 146
69 <210> SEQ ID NO: 6
70 <211> LENGTH: 151
71 <212> TYPE: RNA
W--> 72 <213> ORGANISM: artificial sequence
73 <220> FEATURE:
74 <223> LOCATION: 12
75 <223> OTHER INFORMATION: pre-38 catalytic RNA
W--> 76 <400> SEQUENCE: 6
78 ggaucgucag ugaugaga uuuccgcagc ccuucucacu 40
79 aacggugggu ugauggaau uggcguuagg ugcgggaugc 80
80 uacuacgcug gugguaucce caaggguacg ggaccggauc 120
81 auucgagaau cgaauccucg uaccgcagcc a 151
84 <210> SEQ ID NO: 7
85 <211> LENGTH: 150
86 <212> TYPE: RNA
W--> 87 <213> ORGANISM: artificial sequence
88 <220> FEATURE:
W--> 89 <223> OTHER INFORMATION: pre-29 catalytic RNA
OK 90 <400> SEQUENCE: 7
92 ggaucgucag ugaugaga uuuccgcagg ccuucucac 40
93 aacggugggu ugauggaau uggcguuagg ugcgggaugc 80
94 uacuacgcug gugguaucce caaggguacg ggaccggaca 120
95 uucgagaau cgaauccucg accgcagcca 150
97 <210> SEQ ID NO: 8
98 <211> LENGTH: 150
99 <212> TYPE: RNA
OK 100 <213> ORGANISM: artificial sequence
101 <220> FEATURE:
102 <223> OTHER INFORMATION: pre-36 catalytic RNA
W--> 103 <400> SEQUENCE: 8
105 ggaucgucag ugaugaga uuuccgcagc ccuucucacu 40
106 aacggugggu cauggguaau ggcguuagg ggggaugcu 80
107 acuacgcug ugguaucce caaggguacg gaccggauca 120
108 uucgagaau cgaauccucg accgcagcca 150
110 <210> SEQ ID NO: 9
111 <211> LENGTH: 150
112 <212> TYPE: RNA
OK 113 <213> ORGANISM: artificial sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: pre-24 catalytic RNA
OK 116 <400> SEQUENCE: 9

what does "n" represent,
since <223> response
describes "artificial sequence"
response in <213>?

see item 10 on
Erra summary
sheet

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Input Set : A:\PTO.txt
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117 ggaucgucag ugcauugaga uuuccgcagc ccuucucacu 40
118 aaacgguggu cauggguaau ggcguuagg ggcgggagcu 80
119 acuacgcugg ugguaucccc aaggguacgg gaccggacau 120
120 ucgagauucg aauccucgua ccgcagcca 149

122 <210> SEQ ID NO: 10
123 <211> LENGTH: 149
124 <212> TYPE: RNA
125 <213> ORGANISM: artificial Sequence

OK 126 <220> FEATURE:
W--> 127 <223> OTHER INFORMATION: pre-25 catalytic RNA
128 <400> SEQUENCE: 10

130 ggaucgucag ugcauugaga uuuccgcagc ccuucucacu 40
131 aaacgguggu cauggguaau ggcguuagg ggcgggagcu 80
132 acuacgcugg ugguaucccc aaggguacgg gaccggacau 120
133 ucgagauucg aauccucgua ccgcagcca 149

136 <210> SEQ ID NO: 11
137 <211> LENGTH: 149
138 <212> TYPE: RNA
139 <213> ORGANISM: artificial Sequence

OK 140 <220> FEATURE:
W--> 141 <223> OTHER INFORMATION: pre-22 catalytic RNA
142 <400> SEQUENCE: 11

144 ggaucgucag ugcauugaga uuuccgcagc ccuucucacu 40
145 aaacgguggu cauggguaau ggcguuagg ggcgggagcu 80
146 acuacgcugg ugguaucccc aaggguacgg gaccggacau 120
147 ucgagauucg aauccucgua ccgcagcca 149

150 <210> SEQ ID NO: 12
151 <211> LENGTH: 149
152 <212> TYPE: RNA
153 <213> ORGANISM: artificial Sequence

W--> 154 <220> FEATURE:
155 <222> LOCATION: 112
156 <223> OTHER INFORMATION: pre-5 catalytic RNA

W--> 157 <400> SEQUENCE: 12
159 ggaucgucag ugcauugaga uuuccgcagc ccuucucacu 40
160 aaacgguggu cauggguaau ggcguuagg ggcgggagcu 80
W--> 161 acuacgcugg ugguaucccc aaggguacgg gaccggacau 120
162 ucgagauucg aauccucgua ccgcagcca 149

165 <210> SEQ ID NO: 13
166 <211> LENGTH: 149
167 <212> TYPE: RNA
168 <213> ORGANISM: artificial Sequence

OK 169 <220> FEATURE:
W--> 170 <223> OTHER INFORMATION: pre-19 catalytic RNA
171 <400> SEQUENCE: 13

173 ggaucgucag ugcauugaga uuuccgcagc ccuucucacu 40
174 aaacgguggu cauggguaau ggcguuagg ggcgggagcu 80
175 acuacgcugg ugguaucccc aaggguacgg gaccggacau 120
176 ucgagauucg aauccucgua ccgcagcca 149

what does "n" represent?

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Input Set : A:\PTO.txt
 Output Set: N:\CRF3\12072000\I721414.raw

179 <210> SEQ ID NO: 14
 180 <211> LENGTH: 150
 181 <212> TYPE: RNA
 182 <213> ORGANISM: artificial Sequence
 W-1> 183 <220> FEATURE:
 W-1> 184 <223> OTHER INFORMATION: pre-8 catalytic RNA
 W-1> 185 <400> SEQUENCE: 14
 187 ggaucgucag ugcauugaga uuuccgagc ccuucucacu 40
 188 aacggugggg caugcguaau ugccguuagg gacgggagc 80
 189 uacuaugcug gugguaucuu caaggguaag gacgggaca 120
 190 uucuaagauu gaaucucgu accgcagcca 150
 193 <210> SEQ ID NO: 15
 194 <211> LENGTH: 148
 195 <212> TYPE: RNA
 196 <213> ORGANISM: artificial Sequence
 W-1> 197 <220> FEATURE:
 W-1> 198 <223> OTHER INFORMATION: pre-23 catalytic RNA
 W-1> 199 <400> SEQUENCE: 15
 201 ggaucgucag ugcauugaga uuuccgagc ccuucucacu 40
 202 aacggugggg caugcguaau ugccguuagg gacgggagc 80
 203 acuaugcug gugguaucuu caaggguaag accgcagcca 120
 204 cgagaauucg auccucguac cgcagcca 148
 207 <210> SEQ ID NO: 16
 208 <211> LENGTH: 75
 209 <212> TYPE: RNA
 210 <213> ORGANISM: Escherichia coli
 W-1> 211 <220> FEATURE:
 W-1> 212 <223> OTHER INFORMATION: otrna
 W-1> 213 <400> SEQUENCE: 16
 215 gguguaucuu ccaaggggaa agggaccgga uucuaaauc 40
 216 ggcuaucgga gguucgaauc cucguaccgc agcca 75
 218 <210> SEQ ID NO: 17
 219 <211> LENGTH: 160
 220 <212> TYPE: RNA
 221 <213> ORGANISM: artificial sequence
 W-1> 222 <220> FEATURE:
 W-1> 223 <223> OTHER INFORMATION: H2 Leu catalytic RNA
 W-1> 224 <400> SEQUENCE: 17
 226 ggaucgucag ugcauugaga ugcccaaagc ccuucucacu 40
 227 uccggugggg caugcguaau ugccguuagg gacgggagc 80
 228 aguaugcggg ugguauccaa ggguaaagg accggauuc 120
 229 aaauccggcau uccgagguuc gaaucucgu accgcagcca 160
 231 <210> SEQ ID NO: 18
 232 <211> LENGTH: 156
 233 <212> TYPE: RNA
 234 <213> ORGANISM: artificial sequence
 W-1> 235 <220> FEATURE:
 W-1> 236 <223> OTHER INFORMATION: D1-Leu catalytic RNA
 W-1> 237 <400> SEQUENCE: 18

RAW SEQUENCE LISTING
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Input Set : A:\PT0.txt
Output Set: N:\CRF3\12072000\I721414.raw

239 ggaucgucaq uqcauugaga uagugucacu aggcgggggg 40
240 ugauagcgca uuuugagguu ugguuugggg gguaugcgu 80
241 gaquucuuqg guqquaacca agggguuagq gaucuaaau 120
242 cgaacauuccy agquucgaau ccucguaccg cagcca 156
245 <210> SEQ ID NO: 19
246 <211> LENGTH: 35
247 <212> TYPE: RNA
248 <213> ORGANISM: artificial sequence
OK 249 <220> FEATURE:
250 <223> OTHER INFORMATION: RNA forming a minihelix
W--> 251 <400> SEQUENCE: 19
253 gguugguacga gguucgauc cucquaccgc agcca 35
255 <210> SEQ ID NO: 20
256 <211> LENGTH: 73
257 <212> TYPE: RNA
258 <213> ORGANISM: artificial sequence
OK 259 <220> FEATURE:
260 <223> OTHER INFORMATION: V1 variant of tRNA
W--> 261 <400> SEQUENCE: 20
263 gguugguaucc ccaagggua cggaccggau ucuaaauccg 40
264 gcauucgaga uucgaauccu cguaccgcag cca 73
266 <210> SEQ ID NO: 21
267 <211> LENGTH: 75
268 <212> TYPE: RNA
269 <213> ORGANISM: artificial sequence
OK 270 <220> FEATURE:
271 <223> OTHER INFORMATION: V2 variant of tRNA
W--> 272 <400> SEQUENCE: 21
274 gguugguaucc ccaagggua cggaccggau ucuaaaucc 40
275 ggaauuccga gauucgauc cucguaccgc agcca 75
278 <210> SEQ ID NO: 22
279 <211> LENGTH: 73
280 <212> TYPE: RNA
281 <213> ORGANISM: artificial sequence
OK 282 <220> FEATURE:
283 <223> OTHER INFORMATION: V3 variant of tRNA
W--> 284 <400> SEQUENCE: 22
286 gguugguaucc ccaagggua cggaccggau ucuaaauccg 10
287 gcauucgagg uucgaauccu cguaccgcag cca 73

VERIFICATION SUMMARY
 PATENT APPLICATION: US/09/721,414

DATE: 12/07/2000
 TIME: 11:53:44

Input Set : A:\PTO.txt
 Output Set: N:\CRF3\12072000\I721414.raw

L:4 M:283 W: Missing Blank Line separator, <120> field identifier
 L:5 M:283 W: Missing Blank Line separator, <130> field identifier
 L:6 M:270 C: Current Application Number differs. Replaced Current Application No
 L:6 M:271 C: Current Filing Date differs. Replaced Current Filing Date
 L:6 M:283 W: Missing Blank Line separator, <160> field identifier
 L:7 M:283 W: Missing Blank Line separator, <210> field identifier
 L:11 M:283 W: Missing Blank Line separator, <220> field identifier
 L:15 M:283 W: Missing Blank Line separator, <400> field identifier
 L:17 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
 L:17 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1
 L:18 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
 M:340 Repeated in SeqNo=1
 L:19 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
 L:25 M:283 W: Missing Blank Line separator, <220> field identifier
 L:27 M:283 W: Missing Blank Line separator, <400> field identifier
 L:37 M:283 W: Missing Blank Line separator, <220> field identifier
 L:39 M:283 W: Missing Blank Line separator, <400> field identifier
 L:48 M:283 W: Missing Blank Line separator, <220> field identifier
 L:50 M:283 W: Missing Blank Line separator, <400> field identifier
 L:59 M:283 W: Missing Blank Line separator, <220> field identifier
 L:61 M:283 W: Missing Blank Line separator, <400> field identifier
 L:73 M:283 W: Missing Blank Line separator, <220> field identifier
 L:76 M:283 W: Missing Blank Line separator, <400> field identifier
 L:78 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6
 L:78 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:6
 L:88 M:283 W: Missing Blank Line separator, <220> field identifier
 L:90 M:283 W: Missing Blank Line separator, <400> field identifier
 L:101 M:283 W: Missing Blank Line separator, <220> field identifier
 L:103 M:283 W: Missing Blank Line separator, <400> field identifier
 L:114 M:283 W: Missing Blank Line separator, <220> field identifier
 L:116 M:283 W: Missing Blank Line separator, <400> field identifier
 L:126 M:283 W: Missing Blank Line separator, <220> field identifier
 L:128 M:283 W: Missing Blank Line separator, <400> field identifier
 L:140 M:283 W: Missing Blank Line separator, <220> field identifier
 L:142 M:283 W: Missing Blank Line separator, <400> field identifier
 L:154 M:283 W: Missing Blank Line separator, <220> field identifier
 L:157 M:283 W: Missing Blank Line separator, <400> field identifier
 L:161 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:12
 L:161 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:12
 L:169 M:283 W: Missing Blank Line separator, <220> field identifier
 L:171 M:283 W: Missing Blank Line separator, <400> field identifier
 L:183 M:283 W: Missing Blank Line separator, <220> field identifier
 L:185 M:283 W: Missing Blank Line separator, <400> field identifier
 L:197 M:283 W: Missing Blank Line separator, <220> field identifier
 L:199 M:283 W: Missing Blank Line separator, <400> field identifier
 L:211 M:283 W: Missing Blank Line separator, <220> field identifier
 L:213 M:283 W: Missing Blank Line separator, <400> field identifier
 L:222 M:283 W: Missing Blank Line separator, <220> field identifier

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Input Set : A:\PT0.txt
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L:224 M:283 W: Missing Blank Line separator, <400> field identifier
L:225 M:283 W: Missing Blank Line separator, <220> field identifier
L:237 M:283 W: Missing Blank Line separator, <400> field identifier
L:249 M:283 W: Missing Blank Line separator, <220> field identifier
L:251 M:283 W: Missing Blank Line separator, <400> field identifier
L:259 M:283 W: Missing Blank Line separator, <220> field identifier
L:261 M:283 W: Missing Blank Line separator, <400> field identifier
L:270 M:283 W: Missing Blank Line separator, <220> field identifier
L:272 M:283 W: Missing Blank Line separator, <400> field identifier
L:282 M:283 W: Missing Blank Line separator, <220> field identifier
L:284 M:283 W: Missing Blank Line separator, <400> field identifier

US 0972141408P1



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Legal Date: 08-05-2001

No.	Doccode	Number of pages
1	CRFL	7

Total number of pages: 7

Remarks:

Order of re-scan issued on